Claims

	[c1]	1. A color display system, comprising:
		an illumination system that provides fixed, color-separated illumination of
		color-component sub-pixels in a pixellated electronic display panel; and
		a post-display panel dynamic displacement element that displaces alignment
i construction de la constructio		of the color-component sub-pixels generated by the display panel.
	[c2]	2. The system of claim 1 further comprising an angular color separation
		system with plural angularly inclined dichroic mirrors for providing the color
		separation of incident multi-color illumination light.
	[c3]	3. The system of claim 1 further comprising a microlens array positioned
		adjacent the pixellated electronic display.
	[c4]	4. The system of claim 3 further comprising a grating positioned between
		the microlens array and the pixellated electronic display.
	[c5]	5. The system of claim 4 in which the grating includes a holographic optical
		element.
	[c6]	6. The system of claim 1 further comprising a grating for providing the color
		separation of incident multi-color illumination light.
	[c7]	7. The system of claim 6 in which the grating includes a holographic optical
		element.
	[c8]	8. The system of claim 1 in which the dynamic displacement element
		includes a rotating element that successively directs the color-component
	· · · · · · · · · · · · · · · · · · ·	sub-pixels generated by the display panel along different optical paths.
7	[c9]	9. The system of claim 1 in which the rotating element includes a
		birefringent element with a selected polarization direction.
	[c10]	10. The system of claim 1 in which the rotating element includes a plural
		refractive segments having different inclination orientations.
	[c11]	11. The system of claim 1 in which the dynamic displacement element
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includes a pair of face-to-face refractive elements with a separation between them that is modified to successively direct the color-component sub-pixels generated by the display panel along different optical paths. [c12]12. The system of claim 11 in which each of the refractive elements includes a prism array. [c13]13. The system of claim 1 further comprising a color separating element for providing the color separation of incident multi-color illumination light and a prism array positioned after the color separating element. [c14]14. The system of claim 13 in which the color separating element includes an angular color separation system with plural angularly inclined dichroic mirrors. [c15]15. The system of claim 1 in which the display panel includes colorcomponent sub-pixels that are arranged in vertical columns for each color component. [c16]16. The system of claim 1 further comprising a microlens array positioned adjacent the display panel, wherein the each microlens is aligned with and delivers light to a triplet of color-component sub-pixels that are arranged in a horizontal row.

[c17]

[c18]

17. The system of claim 16 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color component and successive sub-pixels in each column are positioned in alternate successive rows.

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18. The system of claim 1 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color component and the system further comprises a microlens array positioned adjacent the display panel, wherein the each microlens is aligned with and delivers light to a triplet of color component sub-pixels that are arranged that are positioned among two adjacent horizontal rows.

G. g	[c19]	19. A color electronic display projector, comprising: an illumination system that provides fixed, color-separated illumination of color-component sub-pixels in a pixellated electronic display panel; and a post-display panel dynamic displacement element that displaces alignment of the color-component sub-pixels generated by the display panel.
	[c20]	20. The projector of claim 19 further comprising an angular color separation system with plural angularly inclined dichroic mirrors for providing the color separation of incident multi-color illumination light.
	[c21]	21. The projector of claim 19 further comprising a microlens array positioned adjacent the pixellated electronic display.
	[c22]	22. The projector of claim 21 further comprising a grating positioned between the microlens array and the pixellated electronic display.
geng georg gene sterk tot, od oeng il g Node odko kode sterk ende sterk ende Node odko kode	[c23]	23. The projector of claim 22 in which the grating includes a holographic optical element.
	[c24]	24. The projector of claim 19 further comprising a grating for providing the color separation of incident multi-color illumination light.
en ede "Tribal ede	[c25]	25. The projector of claim 24 in which the grating includes a holographic optical element.
g 27 12 22 22 22 22 22 22 22 22 22 22 22 22	[c26]	26. The projector of claim 19 in which the dynamic displacement element includes a rotating element that successively directs the color-component sub-pixels generated by the display panel along different optical paths.
Sh	[c27]	27. The projector of claim 19 in which the rotating element includes a birefringent element with a selected polarization direction.
<i>\(\tau^{\sigma} \)</i>	[c28]	28. The projector of claim 19 in which the rotating element includes a plural refractive segments having different inclination orientations.
	[c29]	29. The projector of claim 19 in which the dynamic displacement element includes a pair of face-to-face refractive elements with a separation between

ogn ^d		them that is modified to successively direct the color-component sub-pixels generated by the display panel along different optical paths.
	[c30]	30. The projector of claim 29 in which each of the refractive elements includes a prism array.
	[c31]	31. The projector of claim 19 further comprising a color separating element for providing the color separation of incident multi-color illumination light and a prism array positioned after the color separating element.
	[c32]	32. The projector of claim 31 in which the color separating element includes an angular color separation system with plural angularly inclined dichroic mirrors.
	[c33]	33. A color display method, comprising: illuminating color-component sub-pixels in a pixellated electronic display panel with color-separated, fixed color components; and dynamically aligning the color-component sub-pixels after the display element.
He had the some of the	[c34]	34. The method of claim 33 further comprising an angularly color separating incident multi-color illumination light to provide the color-separated color components.
	[c35]	35. The method of claim 33 in which dynamically aligning the color-component sub-pixels includes successively directing the color-component sub-pixels generated by the display panel along different optical paths.
Sh	[c36]	36. The method of claim 35 further comprising successively directing the color-component sub-pixels through different segments of a rotating light displacement element.
(f)	[c37]	37. The method of claim 33 in which the display panel includes color-component sub-pixels that are arranged in vertical columns for each color

component and dynamically aligning the color-component sub-pixels after

the display element includes displacing selected color components laterally.

[c38]

- 38. The method of claim 33 in which the color-component sub-pixels of a pixel are alranged on the display panel in adjacent rows and dynamically aligning the color-component sub-pixels after the display element includes displacing selected color components in transverse directions.
- [c39] 39. In a color display system with plural pixellated electronic display panels that each receive illumination of a different color component of light and a combiner that combines color component light images formed by the display panels, the improvement comprising:

 a post-combiner dynamic displacement element that displaces alignment of the color-component sub-pixels generated by the display panel to form a resolution-enhanced display image.